

OS Macadamia integrifolia.
 FH Key Location/Qualifiers
 FT Peptide 1..28
 FT /note="signal peptide"
 FT 29..666
 FT /note="mature protein"
 PN W09827805-A1.
 PD 02-JUL-1998.
 PF 22-DEC-1997; AU0874.
 PR 20-DEC-1996; AU-004275.
 PA (RTR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
 PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
 DR WPI: 98-377279/32.
 DR N-PSDB: V42310.
 PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
 PT useful for controlling microbial infestations of plants or mammals
 PS Claim 1; Page 34-36; 96pp; English.
 CC The sequence is that of an antimicrobial protein which can
 CC be used to control microbial infestations in plants and mammalian
 CC animals.
 SV Sequence 666 AA;

Query Match 96.1%; Score 517; DB 1; Length 666;
 Best Local Similarity 95.7%; Pred. No. 2,29e-34;
 Matches 66; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

DB 117 NRORPQOYEQCQRRCRETEPRHMQTCQRCERREYKRRKQKRYEQQREDEEY 176
 OY 117 NRORPQOYEQCQRRCRETEPRHMQTCQRCERREYKRRKQKRYEQQREDEEY 176

DB 177 ERMKEEDN 185
 OY 177 ERMKEEDN 185

RESULT 3
 ID W62830 standard; Protein; 625 AA.

AC W62830.
 DT 27-OCT-1998 (first entry)
 DE Macadamia integrifolia antimicrobial protein.
 KW antimicrobial protein; infestation; control.
 OS Macadamia integrifolia.
 FH Key Location/Qualifiers
 FT Peptide 1..28
 FT /note="signal peptide"
 FT 29..666
 FT /note="mature protein"
 PN W09827805-A1.
 PD 02-JUL-1998.
 PF 22-DEC-1997; AU0874.
 PR 20-DEC-1996; AU-004275.
 PA (RTR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
 PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
 DR WPI: 98-377279/32.
 DR N-PSDB: V42310.
 PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
 PT useful for controlling microbial infestations of plants or mammals
 PS Claim 1; Page 43-45; 96pp; English.
 CC The sequence is that of an antimicrobial protein which can
 CC be used to control microbial infestations in plants and mammalian
 CC animals.
 SV Sequence 625 AA;

Query Match 95.2%; Score 512; DB 1; Length 625;
 Best Local Similarity 94.2%; Pred. No. 6,11e-34;
 Matches 65; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

DB 76 NRORPQOYEQCQRRCRETEPRHMQTCQRCERREYKRRKQKRYEQQREDEEY 135
 OY 117 NRORPQOYEQCQRRCRETEPRHMQTCQRCERREYKRRKQKRYEQQREDEEY 176
 DB 136 ERMKEEDN 144

OY 177 ERMKEEDN 185

RESULT 4
 ID W62831 standard; Protein; 525 AA.

AC W62831.
 DT 27-OCT-1998 (first entry)
 DE Theobroma cacao antimicrobial protein.
 KW antimicrobial protein; infestation; control.
 OS Theobroma cacao.
 PN W09827805-A1.
 PD 02-JUL-1998.
 PF 22-DEC-1997; AU0874.
 PR 20-DEC-1996; AU-004275.
 PA (RTR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
 PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
 DR WPI: 98-377279/32.
 PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
 PT useful for controlling microbial infestations of plants or mammals
 PS Claim 1; Page 47-49; 96pp; English.
 CC The sequence is that of an antimicrobial protein which can
 CC be used to control microbial infestations in plants and mammalian
 CC animals.
 SV Sequence 525 AA;

Query Match 40.9%; Score 220; DB 1; Length 525;
 Best Local Similarity 48.5%; Pred. No. 1.46e-09;
 Matches 32; Conservative 13; Mismatches 17; Indels 4; Gaps 3;

DB 35 ERDPQOYEQCQRRCRETEPRHMQTCQRCERREYKRRKQKRYEQQREDEEY 90
 OY 119 ORDPQOYEQCQRRCRETEPRHMQTCQRCERREYKRRKQKRYEQQREDEEY 178

DB 91 RQOEOQ 96
 OY 179 RQOEOQ 184

RESULT 5
 ID R20181 standard; Protein; 566 AA.

AC R20181.
 DT 16-APR-1992 (first entry)
 DE Sequence encoded by 67 kD T. cacao protein cDNA.
 KW Cocoa; Flavour; vicillin; seed storage protein.
 OS Theobroma cacao.
 PN W09119801-A.
 PD 26-DEC-1991.
 PR 07-JUN-1991; G00914.
 PR 11-JUN-1990; GB-013016.
 PA (MRS) MARS UK LTD.
 PI Spencer ME, Hodge R, Deakin EA, Ashton S;
 DR WPI: 92-024418/03.
 DR N-PSDB: 020377.
 PT Recombinant cocoa proteins - are responsible for flavour in cocoa
 PT beans and produced in large quantities using yeast and bacterial
 PT expression vectors
 PS Claim 4; Fig 2; 59pp; English.
 CC The inventors claim a 67 kD and 31 kD T. cacao protein, and
 CC fragments, and encoding DNAs. The 47 kD and 31 kD proteins are
 CC derived from the 67 kD precursor. T. cacao protein cDNA was
 CC detected in a cDNA library prepared from immature cocoa beans RNA
 CC using a probe based on the AA sequence of a CNBR peptide common to
 CC the 47 kD and 31 kD polypeptides. Homology searches revealed close
 CC homologues between the 67 kD polypeptide and the vicillins, which are
 CC seed storage proteins.
 SV Sequence 566 AA;

Query Match 40.9%; Score 220; DB 1; Length 566;
 Best Local Similarity 48.5%; Pred. No. 1.46e-09;
 Matches 32; Conservative 13; Mismatches 17; Indels 4; Gaps 3;

DB 35 ERDPQOYEQCQRRCRETEPRHMQTCQRCERREYKRRKQKRYEQQREDEEY 90
 OY 119 ORDPQOYEQCQRRCRETEPRHMQTCQRCERREYKRRKQKRYEQQREDEEY 178

